

# **KIT, AUTOCOMBUSTIBLE INCINERATOR DE MONTFORT**

## **KWATKINCM1-**

### **DEFINITION**

Auto combustible incinerator with double combustion chamber made of heat resistant bricks for the treatment of soft waste.

### **DESCRIPTION**

The complete kit permits the construction of a De Montfort incinerator, to be completed on the field with some normal bricks and Portland cement.

The kit consists of 4 modules, which can be ordered separately in order to allow to purchase only the material / spare parts that cannot be found on the field.

#### **Module 1: Refractory material**

All the refractory bricks and cement needed for the construction of 1 De Montfort incinerator. Specific construction tools are included as well.

#### **Module 2: Insulator stabilizer**

Vermiculite mixed with Lafarge cement will provide an improved insulation of the combustion chambers and give more stability to the incinerator.

#### **Module 3: Metal works**

The pre-fabricated U-profiles in L-shape will have to be cut to length on the field according to the exact size of the refractory core of the incinerator and welded together. The standard sized loading door, chimney spigot and ash tray are pre-fabricated and only have to be installed on the incinerator.

#### **Module 4: Chimney**

For transport reasons, the chimney is divided in 4 parts of a meter and will have to be assembled on the spot. It is recommended to order a second module 4 as spare parts. The lower part of the chimney will endure heavy corrosion due to the high temperatures it is exposed to. The lower pipe will have to

be replaced on a fairly regular basis.

### **INSTRUCTIONS FOR USE**

Follow the instructions precisely according to the manual "Incineration in Health Structures of Low-income Countries: Construction and Operation of the De Montfort Incinerator.

Make sure to hire a skilled mason, open to learn and implement the specific construction rules of heat resistant bricks, as well as a skilled welder for the metal works. Both should have basic tools for their respective jobs.

The De Montfort incinerator should only be used for the treatment of soft waste, not for sharps, organic or hazardous waste. The incinerator is only a tool within a complete Health Care Waste Management system.

Train some national staff in the correct use of the incinerator.

Module 1 is very heavy and therefore split up in 4 pallets to ease the manual loading and offloading and to permit the transport by Pick Up over several trips. Due to its high weight, the complete kit will be send from Europe by maritime transport. Do take in consideration the longer travel period, which can be covered with a drum volume reducer.

### **ADVICES FOR LOCAL PURCHASE**

Verify the manual for the specifications of the different materials. Further information can be obtained at the head quarters.

<b><i>Composition of KWATKINCM1-</i></b>	<b><i>Qty</i></b>
MODULE 1: REFRACTORY MATERIAL	
REFRACTORY BRICKS, sillimanite with 60 % Al <sub>2</sub> O <sub>3</sub> and high density	168
REFRACTORY CEMENT, Aludrite 50, bag of 25 kg	2
FLAT CHISEL	1
HEAVY HAMMER	1

<b>Composition of KWATKINCM1-</b>	<b>Qty</b>
SOFT HAMMER	1
MODULE 2: INSULATOR STABILIZER	
VERMICULITE, granularity N° 1, bag of 10 kg	3
VERMICULITE, granularity N° 3, bag of 10 kg	3
CEMENT LAFARGE, bag of 25 kg	4
MODULE 3: METAL WORKS	
HALF FRAMES, U-profile, steel, cut and welded into L-shape	4
LOADING DOOR, steel with hinge bar	1
CHIMNEY SPIGOT, steel	1
ASH TRAY, steel	1
CONNECTION PLATES, steel	2
MODULE 4: CHIMNEY	
CHIMNEY PIPES, steel, 1 m length, 2 mm thick, diameter 150 mm	4
CHIMNEY RAIN CAP	1

<b>MSF code</b>	<b>Related Articles</b>
KWATMINCM11	(module De Monfort incinerator) REFRACTORY MATERIAL
KWATMINCM12	(module De Monfort incinerator) INSULATOR STABILIZER
KWATMINCM13	(module De Monfort incinerator) METAL WORKS
KWATMINCM14	(module De Monfort incinerator) CHIMNEY
SINSCONT1R-	REUSABLE SHARPS CONTAINER (RSC), 1.2 litre
	<i>End of list</i>

